

## PATENT ABSTRACTS OF JAPAN

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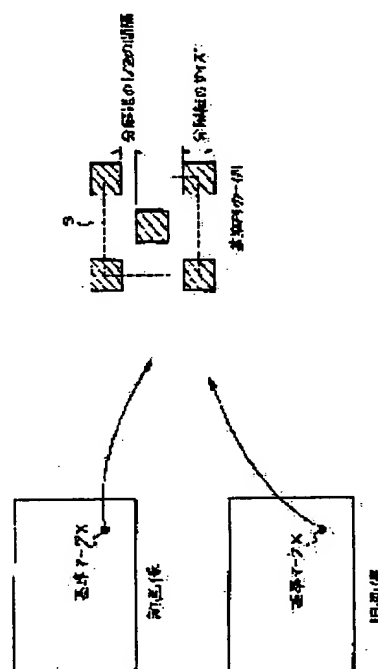
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(54) METHOD OF MATCHING PHOTOGRAPHED IMAGES, MAP UPDATING DEVICE UTILIZING SAME METHOD, AND UPDATING METHOD THEREFOR

(57)Abstract:

PROBLEM TO BE SOLVED: To match a photographed images with accuracy at a higher level than resolution.

SOLUTION: A photographed image including a reference mark is obtained within a photograph range. An image with plural mis-aligned marks is prepared, which is an image on which the reference mark is shifted little by little by a distance smaller than photographing resolution. The position of the reference mark in the photographed image is specified with a higher accuracy than photographing resolution by comparing the reference mark take in the photographed image with the plural mis-aligned marks. Based on the specified reference mark position, the photographed imaged is matched with an image subject to be compared. When a map is updated by using this image matching method, a changed part of the map can accurately be found and an accurately updated map can be created.



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